

SEQUENCE LISTING

	Kosan Biosciences, Inc. Santi, Daniel Peck, Larry Dayem, Linda Kealey, James														
<120>	HETEROLOGOUS PRODUCTION OF POLYKETIDES														
<130>	30062-20049.00														
	US 09/699,136 2000-10-27														
	US 60/161,414 1999-10-25														
	US 60/161,703 1999-10-27														
	US 60/206,082 2000-05-18														
<160>	0> 2														
<170> FastSEQ for Windows Version 4.0															
<210> 1 <211> 447 <212> DNA <213> Artificial Sequence															
<220> <223> Isolated and recombinant form of the full epimerase gene sequence															
<221> <222>		(444	1)												
<400> atg ag Met Se	t aat														48
tgc cc Cys Pr															96
tgg ca Trp Hi															144
atc at															192

50	55	60
----	----	----

_	_	_	_	_		aac Asn	_		_		_	_	_	~		240
						gcc Ala										288
-	-		_	_	_	agc Ser	_		_	-		_			_	336
_	_		_			aag Lys							_			384
	_			_	_	ggc Gly 135	_					~ ~			_	432
	_	aag Lys		tga												447
<210> 2 <211> 148 <212> PRT <213> Artificial Sequence																

<220>

<223> Deduced amino acid sequence of the epimerase gene sequence

<400> 2

Met Ser Asn Glu Asp Leu Phe Ile Cys Ile Asp His Val Ala Tyr Ala 10 Cys Pro Asp Ala Asp Glu Ala Ser Lys Tyr Tyr Gln Glu Thr Phe Gly 25 Trp His Glu Leu His Arg Glu Glu Asn Pro Glu Gln Gly Val Val Glu 40 Ile Met Met Ala Pro Ala Ala Lys Leu Thr Glu His Met Thr Gln Val 55 Gln Val Met Ala Pro Leu Asn Asp Glu Ser Thr Val Ala Lys Trp Leu 75 Ala Lys His Asn Gly Arg Ala Gly Leu His His Met Ala Trp Arg Val 85 90 Asp Asp Ile Asp Ala Val Ser Ala Thr Leu Arg Glu Arg Gly Val Gln 105 Leu Leu Tyr Asp Glu Pro Lys Leu Gly Thr Gly Gly Asn Arg Ile Asn 120 Phe Met His Pro Lys Ser Gly Lys Gly Val Leu Ile Glu Leu Thr Gln 135 Tyr Pro Lys Asn

145